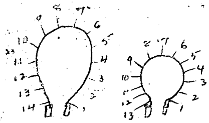
Menlo Park Notebook #67 [N-80-01-02.1]

This notebook was used between January 2 and January 16, 1880 to keep a record of lamps burning at the Menlo Park laboratory complex. Most of the entries were started by Charles Batchelor when the lamps first began burning. A daily record was then kept by either Batchelor or by another laboratory assistant, probably Francis Jehl. Some of the entries are by Edison, including a few extensive notes near the middle of the book. Toward the end of the book is an index to the lamps. The label on the front cover is marked "Lamps Burning," "Jehl," and "Jan. 2/1880." The book contains 132 numbered pages followed by 10 unnumbered pages. The pagination is irregular. With a few exceptions, only the right-hand pages are numbered.

Missing page number: 50.

No 67



LIBRARY OF THE

BOARD OF PATENT CONTROL,

120 BROADWAY, NEW YORK.

GENERAL ELECTRIC
Broad St. N.Y.C.

May 1, 1896

1

Record of Lamps.

No 142. Resistance 150 ohms
has burnt atleast 200 hours } 1880 Jan 2nd 12 noon

{ This lamp is hung on the two main
{ wires over the pumps

Jany 5 measured resistance no change

hours		
200	Jan	2nd
19-30	"	3
9.58	—	4
20.50	—	5
3.47	—	5
20-26		6
12.15		7
22.00		8
9.00		9 till 5 oclock
360 Total		

Jan 9 6-50
Jan 10 19-15
Jan 11 7-00
Jan 12 11-00 Total 404.05 up to noon

Busted Jan 13 2 PM

8 3

15 0

No 159— Hung on leading over pumps

Resist. 153 ohms —
Has burnt 200 hours } Jan 2 1880 noon

Jany 5 measured resistance No change

Jan 2. — 200 — hours
" 3 — 19.30
4 — 9.58
5 — 20.50
5 — 3.47
6 — 20.26
7 — 12.15
8 — 22.00
9 — 9.00 Total time 360.12 Jany 9/10 a

Jany. 8: resistance same

9 — 6.50
13 — 19 — 15
11 — 7 — 00
12 — 11 — 00 Total 404.05 up to 12 o'clock
12 9. — 30
13 11 — 00 " 424.35 " " 12 " "
13 11 — 30
14 22 — 80
15 11 — 30 " 480.30 [illegible] "

No - 189 ~~[illegible]~~ - Chandelier in top room
nearest pumps

Resist. 149
Has run 13 hours } Jan 2 1880. Noon.

	hours	
Jan 2	13	
3.	19 - 30	
4	9 - 58	
5	20. - 50	
5	3 - 47	
6	20. 26	
7	12. 15	
8	22. 00	
9	9. 00	Total time burned ~~[illegible]~~ 173.12 at 5:30 P.M
9	6. 50	
10	19. 15	
11	7. 00	
12	11. 00	" " " 217.17 up to noon

Bursted at 8.40

No ~~[illegible]~~ 275 Second Chandelier top room

Resist. 142. Jan 2 1880
Has run 13 hours 12 noon

Has run since 8
21 Total running

Broke by vibration in taking off and on ¼ in above centre (Edison saw this Jan 2 1880. 8 p m

Edison says not quite sure about this

No 255 ~~189~~ Second Chandelier top room

Resist 200 ~~189~~ } Jan 2 1880
Has run 13 hours } 12 noon

Jan 3	19-30	
4	9-58	
5	20-30	
5	3-47	
6	20. 26	
7	12.15	
8	22.00	Total Time burned 173.12 ~~160.12~~ at 5.00 P.M.
9	9.00	
9	6.50	
10	19.15	
11	7.00	
12	11.00 "	" " 217.17. upto 12 oc
12	9. 30	
13	11.00 "	" " 237.47 " " "
13	11-30	
14	22-30	
15	11.30 "	" " 29~~4~~.17 " "

223 third chandelier top room

Res 140 } Jan 2 1880 noon

Burnt 13 hours.

Jan 3	19 - 30	
4	9 - 58	
5.	20 - 50	
5	3 - 47	
6	20 . 26	
7	12 . 15	
8	22 . 00	
9	9 . 00	Total time burned 143.12 ~~148.12~~ at 5.00 P.M.
9	6 . 50	
10	19 . 15	
11	7 . 00	
12	11 . 00	" " " 187.17 after noon
12	9 . 30	
13	10 . 00	" " " 207.47 " " "
13	11 - 30	
14	22 - 30	
15	11 - 30	" " " 262.17 " " "

193 Chandelier Near organ

Resist 154 } Jan 2 1880
noon
Burnt 13 hours
Jan 3 – 19.30
4 – 9.58
5 – 20.50
5 – 3.47

Taken out on Jan 9 1880
to put in street lamps
replaced by 376 experiment

162. Chandelier near organ.

Resist 147 } Jan 2 1880 noon

Burnt 13 hours
Jan 3 19.30
4 9.58
5 20.50
5 3.47

Taken out on Jan. 9 1880 replaced by 375 experiment bead on end of tip Taken to Ammoshes where it burnt 402.00 Total Brought up for [illegible] light

167. Third Chandelier top room South side

Resist 136 } Jan 2 1880
Burnt 13 hours } noon

Saw this burst at 3 pm Jan 2
Inside glass broke

Total length of burning
15 hours.

204 Flammers bench

Resist
Burning 13 hours } Jan 2 1880 noon

Jan 2 1880 taken out by Edison and
5pm given Upton to make test for
rupture
Total burning 16 hours

203 Flammer's bench.

142 Resist } Jan 2 1880
Burnt 5½ hours } noon

After burning a total of 17½ hours it broke

155 Over Carman's desk Office

Resist 126 ohms } Jan 2 1880
Burnt 50 hours } noon

Jan 3. 19-30
4 9-58
5 20-50
5 3-47

6 20-26
7 12-15
8 22-00
9 9-00 Total time burned 160 hours upto 5:00

9 6-50
10 19.-15
11 7-00
12 11-00 Tu " " 204.05 upto noon
12 9.-30
13 11.-30 " " " 224.35 " " "
13 11-30 " " "
14 22-30 " " "
15 11-30 " " -280.05 " "
1

201. over Carman's desk (Office)

Resist 147 }
Burnt 50 hours } Jan 2 1890 noon

Jan 3	19.30	
4 –	9.58	
5 –	20.00	
5 –	3.47	
6	20.26	
7	12.15	
8	22.00	
9	9.00	Total Time burned ~~210~~ 260 hours upto 5.00 P.M.
9	6.00	
10	19.15	
11	7.00	" 204.05 upto noon
12	11 – 00	" "
12	9. 30	" 224.30 " "
13	11. – 00	" "
13	11 – 30	
14	22. – 30	
15	11 – 30	" 280.00 " "

164 Office Chandelier near door

Resist 182 Jan 2 1880
noon

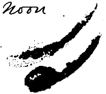
Burnt 50 hours.

Jan 3	19-30	
4	9.50	
5	20.50	
5	3.47	
6	20.36	
7	12.15	
8	22.00	Total time burned ~~210~~ 160 hou up to 1-PM
9	9.00	
9	6.50	
10	19.15	
11	7.00	
12	20.00 "	" " 204:05 up to noon
13	22 30	
14	22.30 "	" " 224.05 " " "
15	11.30 "	" correct Total 322.13 " " "

172 Chandelier over Griffs desk

Resist 135 } Jan 2 1880

Burnt 58 hours } Noon



Jan 3 19-30
4 9-58
5 20-50
5 3-47
6 20-26
7 12-15
8 22-00
9 9-00 Total time burned 160 ~~240~~ hours up to 5 P.M.
9 6.50
10 19.15
11 7.00
12 11.00 " " " 204-15 up to noon
12 11.38
13 22.36
14 11.30 " " 259 45 " " "

184 Hand lamp Griffs desk

Resist 145 } Jan 2 1880
Burnt 50 hours } noon

Taken Jan. 3 1880 Taken to Paris

Put back on same day

Jan 2.	50 hours
3	19.30
4	9.58
5	20.59
5	3.47

Taken on Jan 6 1880

and put under water in

Laboratory 332 put in its place 94 Page

158 Chandelier Office top room
near closet

Resist 137 } Jan 2 1880
noon
Burnt 50 hours

Jan 3 19.30
4 9.58
5 20.50
5 3.47
6 20.26
7 12.15
8 22.00
9 9.00 Total time burned ~~210~~ 160 hours
9 6.50
10 19.15
7.00
11
11.00 " " " 204-05 up to noon
12
12 9.30
13 11.00 " " " 224.35 " " "
13 11.30
14 22.30
15 11.30 " " " 280.05 " " "

198 Chandelier near Closet
Office top room

Resist 117 } Jan 2 1880
Burnt 50 hours } noon

Jan 3.	19.30	
4	9.58	
5	20.50	
5	3.47	
6	20.26	
7	12.15	
8	22.00	Total time burned ~~210~~ 160.12 4 to 8 P.M.
9	9 00	
9	6.50	
10	19.15	
11	7.00	
12	11.00	" " " 204.05 up to noon
12	9.30	
13	11.00	" " " 224.05 " "
13	11.30	
14	22.30	
15	11.~~30~~	279.35

Bursted this evening at 4.00

Chas Busted

322 5
2
347

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270 Hand lamp at Regulator table

Bottom room

Resis 140 }
Burnt 75 hours } Jan. 2 1880 noon

Jan 3	19.30	
4	9.58	
5	20.50	
5	3.47	
6	20.26	
7	12.15	
8	22.00	Total time burned 185.12 ~~185.12~~ hours up to 5 o'clock
9	9.00	
9	6.50	
10	19.15	
11	7.00	
12	11.00	" " " 229.17 up to noon
12	9-30	
13	11.00	" " " 249.47 " " ✓
13	11.30	
14	22.30	
15	11.30	" " 204.17 " " "

143 Second bench right hand side
Machine shop

Resist 136 } Jan 2 1880
Burnt 10 hours } noon

Broke Jan 4 1880 6 P.M.

Total hours burnt 32 h

Carbon broke by vibration

186 In dynamo room on side door

Res. 155 } Jan 2 1880
Burnt about ~~150~~ ~~[illegible]~~ 150 hours }

Jan 3 19·30
9 58
4 20 50
5 3 47
5

Busted In engine room
burnt 204-17 min— Total

Glass broke

211 Lam in Dynamo room
on Engine room door

Resis 159 } Jan 2 1880
Burnt about 150 hours } noon

Brok on the night of Jan 2 1880
Total running time 170 hours

Bursted in glass.

No 147 Street lamp right hand
of Office door

Resis 145
Burnt 70 hours } Jan 2 1880
noon

Busted 1 a.m.
13 hours

Total. 83

Busted Jan 2/1880
6.30

Carbon ok twas the glass, this
Lamp was used a long while
before putting in Street its been
up to 8 gas jets.

No 236 Street Lamp left hand
of Office door No 7

Resis 130 } Jan 2 1880
Burnt 70 hours } noon

Jan 3 - 19 . 30
4 - 9 . 58
5 - 20 50
5 3 . 47

x Glass broke after burning $5\cdot\overset{h}{2}.\ \overset{m}{5\cdot5}$

218 Street lamp by Jordans

Resist 151 } Jan 2 1880
Burnt 45 hours } noon

Broke Jan 2. 1880 5 PM
Total time burning 50 hours

248 Mr Jordans dining table

Resis' 135 { Jan 2 1880
Burnt 35 hours } Noon

Broke on Jan 8/1880 total
time burned 45 hours

Carbon broke at bend 6

222 Mrs Jordans Dining table

Resis 147 } Jan 2 1880
Burnt 35 hours } noon

12 hours Jan 2.

47 total running

Busted at top of loop. oxydized in spots ?

614
21
686

619
12
631

662
19
681

77
32
109

257 Mr Jordans parlor

Jan 2 1880
noon

Resis 160
Burnt 35 hours

Jan 3 19.20
4 9.58
5 20.50
5 3.47

Total hrs 77.25

Broke at 8.40

Dont see crack but see with glass
bubble up in glass sticking to platina

242 Mrs Jordans parlor

Resis 160 } Jan 2 1880
Burnt 35 hours } noon

Jan 3	19 ·30	
4	9 58	
5	20 30	
5	3 ·47	
6	20 . 26	
7	12 . 15	
8	22 . 00	
9	9 . 00	Total time burned 195.12 up to 5 P.M.
9	6 . 50	
10	19 . 15	
11	7 - 00	
12	11 - 00	" " 239.17 up to noon
12	9 . 30	
13	10 . 00	" " 259.57 "

52
44
96

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206 Street Lamp Corner ✓
Edisons railings

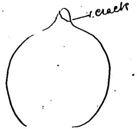
Resis 142
Burnt 30 hours

Jan 2 1880
noon

Bust 2 am.
14 hours

Total 44

Large crack in glass
where sealed off



108 Street lamps at Edison gate

Resis 141
Burnt 35 hours
one of the old steel clamps } Jan 2 1880 noon

No 3

Jan 2	35	
3	19.30	
4	9.58	
5	20.50	
6	3.47	
6	20.26	
7	12.15	
8	22.00	
9	9.00	Total time burned 195.12 up to 5 P.M.
9	6.50	
10	19.15	
11	7.00	
12	11.00	" " " 239.17 up to noon
12	9.30	
13	11.00	" " " 259.37 " " "
13	11.30	
14	22.30	" " 315.07 " " "
15	11.30	"

176 Edison's Parlor afterward
Street Lamp

Resist 167 } Jan 2 1880
noon

Burnt. 60 hours
Jan 3 19:30
4 9:58
5 20:50
6 3:47
114:5 total

Taken out by G Carman (good) - Jan 6th 9 AM
Put in Street lamp in front of Edisons door
at 3. P.M. Jan 6.

Burnt previous 114·05 hours
Jan 6th from 3 pm to

~~Tor~~ Langenil [illegible]

555 — Res 142
550 132
556 148
55~~7~~ 14~~8~~
553 137
549 133

Where 549 came from
Cannot.

Strike

---

207 Edison's parlor

Resis 127 } Jan 2 1880
Burnt 60 hours } noon

Jan 3 19 30
9 58
4 21 58
5 3 47
5 114 . 5 total

Jan 6th. 9 AM taken off by Geo Carman
all right — Looks kind of smoky on glass

210 Edisons parlor ✓

Resis 127 } Jan 2 1880
Burns 60 hours } noon

Busted Jan 3 1880 Total No.
hours burned 65—

Arch formed with clamps

63 Edisons parlor ✓

Resis 135 } Jan 2 1880
Burnt 60 hours } noon—

Busted Jan 3 1880 To [illegible]

hms Inner 74—

Carbon broke

196 Edison parlor ✓

Resis 117
Burnt 60 hours } Jan 2 1880
noon

Found busted
Inside glass broke

194 Edisons parlor

121 Resis } Jan 2 1880
Burnt 60 hours } noon
Jan 3 19 30
4 9 58
5 20 50
5 3 47
114.05 total
Taken out by Geo Carman (good) Jan 6 9 AM

153 Street Lamp Corner of Uptons House

Resis 137

Jan 2 1880

Noon

Burnt 90 hours

Jan	3	19.30
	4	9.58
	5	20.50
	5	3.47
	6	20.26
	7	12.15
	8	22.00
	9	9.00
	9	6.56
	10	19.15
	11	7.00
	12	11.00
	12	9.30
	13	11.00
	13	11.30
	14	12.30
	15	11.30

Total time burned ~~207.36~~ 207.36 up to 5 P.M.

" " " 251.41 up to noon

" " 272.41 " "

~~327~~

" 32~~7~~.11 " "

235 Street Lamp top of stairs right hand

Resis

Burnt 40.
19.30
Jan 3 9.58
4 21.50
5 3.47
~~6 20.16~~
~~7 12.15~~
~~8 22.00~~
~~8 9.03~~
~~9 6.50~~
~~10 19.15~~
~~11 7.00~~
~~12 11.00 " " " 231.41 up to noon~~

Jan 2 noon

Total time burnt
— 70.18 —

~~Carbon busted~~

~~Total time burned 207.36 up to 5 P.M~~

62
50
112

229 Street lamp top depot stairs 40
left hand

Resis. 145
Burnt 45 hours
Jan 2—1880
noon

Busted by
at 5.40 P.M. Total time [illegible] 62

[illegible]

Carbon broke at clamp

224 Uptons parlor (Middle)

Resis 109
Burnt 40 hours
~~Jan 3 19 30~~
~~4 9.58~~
~~5 20.50~~
~~5 3.47~~
6
7
8
9

average 3.80 per night

Jan 2 1880
noon

		h h
Jan 2	2.00	
" 3	2.00	
" 4	2.00	
" 5	2.00	
" 6	2.00	
" 7	2.00	
" 8	2.00	
" 9	2.00	[illegible] $\frac{h}{58}$
" 10	2.00	
" 11	2.00	
" 12	2.00	" [illegible] 72 hours
" 12	2	
" 13	2	
" 14	2	78 "
" 15	2	
" 16	2	80 hours

170 Upblock Parlor Corner by door

Rec 157 — Jan 2 1880 noon

Burnt 40 hours

Jan 2 — 2.00
" 3 2 00
" 4 2 00
" 5 2 00
" 6 2 00
" 7 2 00
" 8 2 00
" 9 2 00 Total time burned 58 hours
" 9 2 00
" 10 2 00
" 11 2 00 at 5 noon
" 12 2 00 " " " 62 "
" 13 2 00 " " " 64 "
" 14 2 00
" 15 2 00 aver. 8.30 per night 68

168 Uptons pointed fibre carbon 168

Rec 147 } Jan 2 1880
burned 40 hours } 9.00 —

Jan. 2 — 2.00
" . 3 2.00
" . 4 2.00
" 5 — 2.00
" 6 2.00
" 7 2.00
" 8 2.00
" 9 2:00 Total time burned 58 hours
" 10 2.00 " " "
" 11 2.00 " " " after noon
" 12 —— 2.00 " " " 12 .
" 13 2.00 7 8 "
" 14 2.00
" 15 — 2.00 over 9.30. per. night 80 .

181 Upton Hill

No. 152 } [illegible] 2 1880
[illegible] 40 [illegible] } [illegible]

Jan. 2 — 5.30 Dim light
Jan 3 — 19.30
" 4 — 8.90
" 5 — 12.07
" 6 — 20.26
" 7 — 12.15
" 8 — 22.00
" 9 9.00 Total time burned 207.36 up to 5 P.M.
" 9 6.50
" 10 19.15
" 11 7.00
" 12 11.00 " " " 251.41 afternoon
" 12 9.30 " " 272.11 " "
" 13 11.00 "

300 Over ~~Griffiths~~ Flemmings desk in Laboratory

Res. 139 E Jan 2 1880

Burned 1 hour noon

Carbon broke in regular place

Total burning time 8 hours eight hours

[illegible] 53

204
56

301 Right-hand of 4th chandelier counting from organ

Res before heating 229 Vacuum 30 10

Commenced burning @ 9.45 am Jan. 2 1880

put in By Edyson

Jan 2nd till noon 2.15
3 19.30
9.58
4 20.50
5 3.47
5

Refer to page 52 Edysons

Busted

Total 56.20

303 On third Chandelier counting from organ

Res before heating 265 — Put in by Edyson — Jan 2 1880 9.45 - PM Commenced burning

— Broke in about 1 hours time

Refer to page 49

Bristol

244 –

Hung on wires – 18 hours
busted $\frac{1}{4}$ in above regular
place,

No 303. burstid in
glass after 1 hour.
Total 1 hour —

On breaking the glass the
small round part where
the wires pass through
was cold, whereas the
bulb itself was hot
apparently showing
that it was not heat

Edison

51

No Lamp 311 - Same exactly as
number 310 -

No 301,

Burned 1 hour, bursted Carbon near top almost in centre. it was high resistance lamp Badly oxidized. it was bright at top & only yellow at bottom —

215
48
263

300 Over Charles Workbench in Laboratory

Res. 145 } Commenced running
Vacuum 30 } at 9.50 AM Jan 2/1880

Broke after running 48 hrs

carbon broke —

109
133
242

161 On table in Laboratory with shade on

No 147
Burnt 26 hours

Jan 3 1880
9.30 AM

Jan	3.	10.00
	4	9.58
	5	20.50
	5	3.47
	6	20.26
	7	12.155
	8	22.00
	9.	9.00

Total time burned up to 5 P.M. ~~[illegible]~~ hours
133 hours

~~Busted Saturday evening~~ at 9.00 clock

~~Total burning time~~ 257 total

put in Second Chandelier
from Pumps 257 Jan 9

In telephone room over table
put in Jan 3rd 1880 9.30 AM

Jan 3 — | 10 —
4 | 9 58
5 | 20.58
5 | 3.47

Taken to give put-in chandelier
Boston afternoon

Office

177 — In Chandelier near door left-hand side

Res. 145 Commenced running at 12 o'clock noon Jan. 3/1880

Jan 3.	12.	
	9.58	
4	20 00	
5	3 47	
5		
6	20.26	
7	12.15	
8	22.00	
9	9.00	Total number hours ~~[illegible]~~ 110.06 at 5 p.m.
9	6.60	
10	19.15	
11	7.00	
12	11.00	154.11 noon
12	9.30	
13	11.00	174.41

9 1 3

Top room (Experiment room) 57

807 .2 chandelier from organ right-hand side north

242 Rec. Jan 3 1880

Commenced burning noon

Jan 3	12.	
4	9 58	
5	20 50	
5	3 47	
6	20. 26	
7	12. 15	
8	22. 00	
9	9. 00	Total number of hours up to 110.10
9	6. 50	
10	19. 15	
11	7. 00	
~~12~~		
12	11. 00	154.11 up to noon
12	9. 00	174.31 " " "
13	11. 00	

Taken to [illegible]

306 Street Lamp. 5-8

306 Right-hand lamp in front south of office

187 Res Commenced burning Jan 8 4.00 PM

Carbon a little oxydized

Taken off because burned so dimly Total time burned 28.10

295 Tried in Chandelier

Res 137

Commenced { Jan 3 1880
Noon

Broke immediately glass then
Inside glass cracked and piece flew out

310 Batchelors corner street lamp

No 140

Commence burning } January 3 1880 half past Three pm

Busted Jan 4 1880

Total hours burned 6 hours

42
261
303

312 3rd Chandelier from organ

No 142 Commenced Jan 3/1880
8.40 P.M.

burning
~~[illegible]~~ north
Jan 3 — 8.20
4 9.58
5 21.50
5 3 47 42 hours

Busted at 8.40 P.M. E.C.

Carbon Broke at clamps supposed by jar in putting in

I think this was broke by jar given when someone tried to put it in

436 Reo (12)

Kotre

put-on 2 chandeliers

Lamp organ north side

Time 4.10 A ~~M~~

~~242~~
249
81
330

214 Commenced running at
400

Res. 195

Jan 3d 1880
3. p m

from 4th Chandelier
north ~~left~~ hand side
NORTH

Jan 3.	9 –	
4	9.58	
5	20.50	
5	3.47	
6	20.26	
7	10.15	
8	22.00	
9	9.00	Total time burned 105 up to 5 pm
9	6.50	
10	19.15	
11	7.00	
12	11.00	249.05

Busted at 9. ~~am~~ the 13th

✓

240 Lamp on corner plank walk 2nd from office — to Depot —

Res. 124 }
Commenced burning at — } Jan. 3. 1880 9.30 P.M.

Removed I lamp post on corner of Laboratory Yard.

Jan 3	8.30
4	9.58
5	20.50
5	3.47
6	20.26
7	12.15
8	22.00
9	9.00

Total hours burned 102.29 up to 5 p.m.

Glass that leads up wires cracked down to inside bulb and I think lost vacuum

304 Hammer's 1/2 inch

Res. 141 | Jan. 3 1880
Commenced Burning | 8 after P.M.

hours
5 Jan 3
9.58 4

Taken down to Edison's one night.

Permanent

189
268
457

X

264 First lamp over pump 2

Laboratory
Res —
Commenced burning } Jan. 4 1880 7.40 P.M.

Jan 4	4 - 20	
5	20 · 50	
5	3 47	
6	20 . 24	
7	10 . 15	
8	22 . 00	
9	9 . 00	Total time burned 90.36 ~~[illegible]~~ 5 P.M.
9	6 . 50	
10	19 . 15	
11	7 . 00	
12	11 . 00	134.41 up to noon
12	9 . 30	
13	11 . 00	155.11 " " "
14	22 . 30	189 . 4

Busted the morning of the 15th

Lamp marked thus 24 mistake
234 Lamp in water Laboratory

Res. Jan. 4 1880

Time burning 114 hours 7.30

Busted at 3 oclock Jan 5 1880
AM. Total time burned 134 hours

Kruesi's parlor
No 263 In front room in Cruzeo's
Res 147 } Jan. 3 1880
Burned 4 1/2 hours } 7.40 P.M.

Jan 3	4.30	
" 4	8.90	
" 5	12.07	
" 6	20.26	
" 7	20.15	
" 8	22.00	
"	9.00	Total time burned 93.48 up to 5 P.M.
" 9		
" 9	6.50	
" 10	19.45	
" 11	7.00	
" 12	11.00	137.53 up to noon
" 12	9.00	
" 13	17.00	157.23 ✓

Bursted
Larger carbon broke at 7 Ro.

17. 8.00
18 2.00
19. 8.00
18.00

---

299 Jn Cruzer front room

Res.

Time burned 4.30

Jan 3 1880
7.30 P.M.

Jan.	3	4.30	
"	4	8.40	
"	5	12.07	
"	6	20.26	
"	7	12.15	
"	8	22.00	
"	9	9.00	Total time burned 93.48 upto 5 PM
"	9	6.50	
"	10	19.15	
"	11	7.00	
"	~~12~~	11.00	131.58
"	12	9.30	152.23
"	13	11.00	
"	13	11.30	
"	14	22.30	207.58
"	15	11.30	

Busted.

Not entered

323

~~323~~ on Street Lamp base

Res

Commenced at 10 PM | Jan. 4 1880
10 P.M.

On table in Laboratory.

Busted at 11.43. running time $\overset{h}{1}.\overset{m}{40}$

Laboratory Table

104 On Base of street-Lamp

Rec. 126 | Jan 4 1880
10. P.M.
Burned 50 hours

On Table in Laboratory
Jan 4 . 52 h
5 20 50
6 3 47

Busted when lights were put- at 1 PM on Total hours burned 76.37

Carbon tube Badly oxydized

Old Clamp
Inside Glass enameled
Glass tube on wires leading to

328 Flammer's Bench
Laboratory
Res 135

Commenced burning Jan. 4 1880 at 11.45

Jan 4 0 - 15
5 20 . 50
5 3 47

Carbon busted after burning
28 hours in same place Jan 6/1880

315 – Mrs Jordans dining Room

Res 230 } Jan 5. 1880
Commenced }
burning at 9.00 AM }

Jan 5 – 13.
5 3.47
6 20.26
7 12.15
8 22.00
9 9 00 Total time burning ~~[illegible]~~ 80.28 up to 5. P.M.
9 6.50
10 ~~19.15~~
~~11 7.00~~ ~~and taken~~ ~~" 124 33 up to now~~
~~12 Busted 00~~ ~~" running~~
12 9.00 " ~~"~~ 145.23 ...
13 11.00

✓ 80 hours

316 Mrs. Jardine dining room

Res 185

Commenced burning 9.00 AM } Jan 5-1880

Jan 5 13.00
5 3.47
" 6 20.26
" 7 12.15
" 8 22.00
" 9 9.00 Total hours burned 80.28 up to 5-P.M.
" 9 6 50.
" 10 16.15
" 11 7.00
" 12 11.00 " " " 121.33 afternoon
" 12 9.00
" 13 11.00 " " " 146.03 " "

Bursted at 9 P.M o'clock Carton

3/7 Machine Shop on door to Engine room

Res 144

Commenced burning at 9.00 AM

Jan 5 · 1880

Jan 5 13 hours
5 3·47

Broke on Jan. 5 · 1880

Total time burned $16^{h}.47^{m}$ hours

318 Lamp post between
office and Laboratory
Res. 152
Commenced burning
Jan: 5 1880
10 A.M

Jan 5 12 hours
5 3.47

Busted Jan. 7 1880 at 9 A.M.
Total hours burned 25 hours

———— X ————

Badly oxydized Carbon arch C.C.

No 313 on Lamp post between 76
Laboratory and Shop
Res 135

Commenced burning at } Jan 5 1880 11.20 AM

Jan/5	10.40	
5	3.47	
6	20.26	
7	12.15	
8	22.00	up to 5 pm
9	9.00	Total burning hours 77.08
9	6.50	
10	19.15	
11	7.00	
12	11.00	" " 121.13 up to noon
12	9.00	
13	11.00	" " 141.43 " "
14	11.80	
14	12.30	✓
15	11.30	" " 198.13 " "
15		

Street Lamp

334 (opposite Thrumralls)

stable

Kw 145

Commenced Burning at — Jan 5 1880 1 P.M.

Jan 5	9 hours	
5	3.47	
6	20.26	
7	12.15	
8	22.00	
9	9.00	Total running Time 66.28 5 P.M.
9	6 50	
10	19.15	
11	7.00	
12	11.00	" " 111.33
12	9.00	" 132.83
13	10.00 "	
13	11.20	
14	22.30	
15	11.30 "	" 187.83

Street Camp
331 Corner opposite Batchelors mine

Res. 145	Jan 5 1880	
Commenced running at	11.40 AM.	
Jan 5	12.20	running
5	3.47	
6	20.26	
7	10.15	
8	22.00	
9	9.00	Total 77.48 hours up to 5 PM
9	6.50	
10	19.15	
11	7.00	
12	11.00	" " 122.53 up to noon
12	9.00	
13	11.00	" " 143.25 " "
13	11.30	
14	22.30	
15	11 30	" " 197.53 " "

325 Depot lamps

No 325 — For post on right hand side of stairs going to Depot

Res 143

Jan 5, 1880
12 noon.

Jan	5	12 hours running
	5	3.47
	6	20.26
	7	10.15
	8	22.00
	9	9.00 Total time burned 77.48 h m ~~[illegible] hr~~ up to 5 pm

Moved from there on Jan 10 Take Glass running up wires broken off on top probably lose vacuum ~~this way~~

to post between Laboratory and office

Street Lamp on plank walk
(on corner) second from office

327 For post in corner of
[illegible] walk

Res 150

Jan 5 1880
12 noon

Jan 5. 12 hours running
5 3.47

Glass broke Total hours 15.47

V 16 hours

Street Lamp

322 In front of office

South side

Res 150. | Jan. 5. 1880

Commenced

Burning at | 11.50 A.M.

Jan 5 12.10 burning

5 3 47

6 20.26

7 10.15

8 22.00 Total time burned 77.48 up to 5 P

9 9.00

Busted

Dont see Crack but see bubbles all way up the leading wires

✓ 78 hours

329 In shop over Billy Knights
Work-bench.
1.146

Jan 5 1880

Commenced
Burning at

11.30 P.M.

Jan 5th 12.10
Jan 6th 17.40
1.15
Jan 6 1-30 · 2.45

Taken out by Batchelor
OK.

Total burning time 31.05

326 In Machine shop second
light from door

Res 140

Jan 5-1880
11.00 A.m.

Commenced burning at

Jan 5. 13
5 3.47
6 20.26
~~7 15.15~~
~~8 22.00~~
~~9 9.00~~

Changed to Telephone
bench in front of Wood hut
Jan 6th 10 AM

Total time burned 37.13

Taken out after 3713

3.30 Bursted immediately on
putting in chandelier
Res 140 | Jan 5 1880

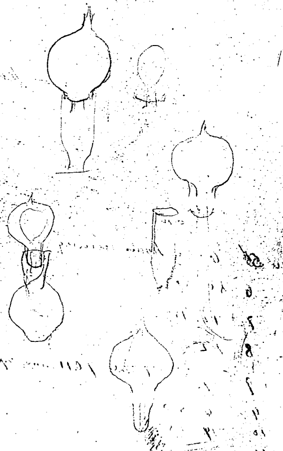
Inside Glass broke very uneven
thickness.

333 Street lamp

Res. 137 on Lamppost at the Corner of Laboratory ~~gate~~ fence

Commenced } Jan 5-1880
Burning at }
5.30 p.m. }

Jan 5th 6.30 hours running
6 20.26
7 12.15
8 22.00
9 9.00 Total 70.11 hours up to 5 P.M.
9 6.50
10 19.15
11 7.00
12 11.00 " 114.16 up to noon
12 9.00
13 11.00 " 135.46 :
13 11.30
14 22.30
15 11.30 : 180.16



332 Under water on Labratory table

Res. | Jan 5 1880

5,30

Commenced burning at Jan 5th | 6.30 hours burning

Jan. 6 1880 Removed from water and put in Office on handlight Stand on desk

Busted Carbon Total time Burned 50 hours —

Edisons Dining room

342 In Edisons house 1st-

Chandelier from door north side in dining-room

Jan 6 '1880

Commenced to burn at 1.30 P.M.

Jan. 6 8.20.
" 7 12.15
" 8 22.00
" 9 9.00 Total hours burned 51.55 at 5 p.m.
" 9 6.50.
" 10. 19.15
" 11 7.00
" 12 11.00 . " 96.~~60~~ up to 5 am
" 12n. 9 00 116.00
" 13 11 00.
" 13 11.30
" 14 22.30 171.00
" 15 11.30

Edison's Dining Room

336 1 chandelier north side counting from door south side Mr Edison's in dining room

Jan. 6 1880 at 1.30

Commenced burning at

Res. 117

Jan. 6 8.20
" 7 12.15
" 8 22.00
" 9 ~~4~~9.00 Total time burned 51.35 at 5 P.M.
" 9 6.50
" 10 19.15
11 7.00
12 11.00 " " " 95.40 noon
12 9.00
13 11.00 " " 117.10 "
13 11.30
14 22.30
15 11.30 " " 172.40 "

Edisons Dining room

335 2 nd Chandelier Mr.

Edison's house north side in dining -room

Commenced burning at | Jan 6 1880 1.30

Jan. 6 8.20
" 7 12.15
" 8 22.00
" 9 9.00 Total hours burned 51.35 upto 5 P.M.
" 9 6.50
" 10 19.15
" 11 7.00
" 12 11.00 . . . 95.40 hours
" 12 9.00 . . . 116.70
" 13 11.00
" 13 11.30
" 14 22.30
" 15 11.30 . . . 172.40

Edison's Dining room

343 2and Chandelier Diningroom
In Edisons House South Side

Rec.
Commenced burning at— | Jan sixth 1880
1.30 P.M.

Jan. 6	8.20	
7	12.15	
8	22.00	
9	9.00	total hours 51.55 burned up to 5 P.M.
9	6.50	
10	19.15	
11	7.00	
12	11.00 "	" 95:40 up to noon
12	9.00	
13	11.00 "	116.10 " " "
13	11.30	
14	22.30	
15	11.30	161.40 " "

298. Street Lamp in front of Edisons house

this was taken from Kruesi's Hall where it had run 62 hours —

Put on Street Lamp Jan 6 4pm.

Jan. 6 8.20
7 12.15
8 22.00
9 9.00 Total time 51.35 hours up to 5 P.M.
9 6.50
10 19.15
11 7.00
12 11.00 " " 95:40 noon
12 9.30
13 11 00 " " 116.10 "
13 11.30
14 22.30
15 11.30 " " 161.41

Edison's parlor

Put on 4 pm Jan 6 1880.

Jan. 6	820	
7	12.15	
8	22.00	
9	9.00	Total time burned 48.35 up to 5 PM
9	6.50	
10	19.15	
11	9.00	
12	11.00	" " noon 3 92.40
12	9.30	
13	11.00	" " " 113.10 "
13	11.30	
14	22.30	
15	11.30	" " " 167.40 "

347 Edisons parlor

Put on 4 p.m. Jan 6 1880.

Jan 6	20.26	
7	12.15	
8	22.26	
9	9.00	Total 64.07 hours up to 5 PM
9	6.50	
10	19.15	
11	7.00	
12	11.00	" hours 108.06 noon
12	9.30	
13	11.00	" " 128.36 "
13	11.00	
14	22.00	
15	11.00	" " 183.06 "

332 Put in hand lamps in office over Griffiths desk

Res 112 | Jan 6 1880
Commenced burning | 1420
burning at

Busted after running 50 previously under water

✓ 50 hours

184 Put under water
on Laboratory table

Res 145 was burnt
98 hours on Griffith's desk
Commenced burning
at — Jan. 6 1880
5 P.M.

Jan 6 4.00
7 12.15
8 22.00
9 18.00
10 19.15
11 7.00
12 11.00 Total 86.20 12 noon
12 9.30
13 11.00 " 106.50 "
13 11.30
14 22.30
15 11.30 " 167.20 "
16 23.00 23
17 184 hours
18
19

Bursted under water
at foot Large C.

340 In Edison's Hall

R. 133

Commenced running at— | Jan. 5-1880 6.00 P.M.

Jan. 5	4.00	
" 6	20.26	
" 7	12.15	
" 8	22.00	upto 5-pm.
" 9	9.00	Total 67.41 hours
" 9	6.50	
" 10	19.15	
" 11	7.00	
" 12	11.00	" hours 112.46 hours
" 12	9.30	
" 13	11.00	" " 133.16 "
" 13	11.30	
" 14	22.30	
" 15	11.30 "	187.46 "

345 Jar Edisons Half

Commenced burning at | Jan. 5 1880 6.00 P.M.

Res. 133

Jany 5	4.00	
6	20.26	
7	12.15	
8	22.00	
9	9.00	total 67.41 hours 2p to 5 PM
9	6.50	
10	19.15	
11	7.00	
12	11.00	" hours 112 46 noon
12	9.30	
13	11.00	" " 133.16 "
13	11 30	
14	22 30	
15	11 30	" 187.46

No 176 For lamppost in front of Edison's house

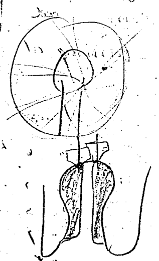
No 167.

Commenced burning at | Jan. 5/1880 4.50

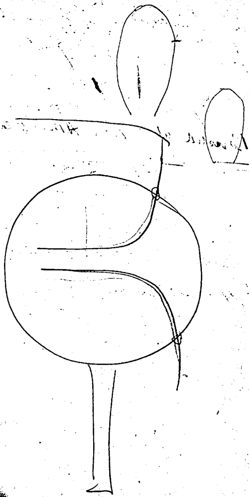
Has burned 114 hours and 5 min

Jan 5 114.05
Jan 5 7.10
" 6 20.26
" 7 12.15
" 8 22.00 upto 5 P.M.
" 9 9.00 Total 184.56 hours
" 9 6.50
" 10 19.15
" 11 7.00
" 12 11.00 " have 229.01 now
" 12 9.30
" 13 11.30 " " ~~249.31~~
" ~~13 11.30~~
" 14 22.30
" 15 11.30 " 304.01

125 20 ohms first [illegible]
2 on better connection 41 ohms afterwards



351 Lamp Between Laboratory and Office
Rec. 117 } Jan 7 1880
Commenced burning at } 12.00 noon
Broken at 7.30 AM. Total 7.30 hours



352

352 Between Office and Laboratory on Lamppost

Res. 122 } Jan. 7/1880 commenced burning at 5.00

Jan 7. 2.00
" 8 22.00
" 9. 9.00 Total 40.30 hrs

Taken and Put on Lamppost at the top of depot stairs

353

Between corner of Laboratory
~~yards~~ yard and corner plank
walk

Jan. 8. 1880

Res 135

Commenced burning ~~Busted at~~

Another lamp was put in

24.26
4.85
29.11

156.50
29.11
127.39

354

Lamppost between corner
and Thornwells Stable

Res. 134 | Jan 7 1880
7.00

Commenced burning at Jan. 7. 7.20

" 8 22.00

" 9 9.00 Total 38.20 hours up to 5 PM

" 9 6.50

" 10 19.15

" 11 7.00

" 12 11.00 " " 82.25 hours

" 12 9.00

" 13 11.10 " " 102.55 "

" 13 11.30

" 14 22.30

" 15 11.30 " " 158.05

360 In office on Griffiths Desk on hand camps.

460.125

Jan. 7 1880

Commenced 7.00 morning

Jan. 7. 6.15

" 8 22.00

" 9 9.00 Total 37.15

" 9 6.50

" 10 19.15

" 11 7.00

" 12 11.00 . 71.20 norm

~~" 12 9.30~~

~~" 13 11.00~~ . 91.50 .

~~" 13 11.30~~

~~" 14 22.30~~

~~" 15 11.30~~ . 146.20 "

~~Printed~~ ~~Counter~~ 71.20 norm ✓

~~Fell 80 of table but still running~~

357 Put in telephone room

Res to be measured | Jan 7 1880

Commenced burning at | 7.40

Jan. 7 6.15
8 22.00
9 9.00 Total 37.15 ✓

Busted at 2.40.

Inside glass cracked and broke out

358 In third chandelier
south side Laboratory

Commenced burning | Jan 8 1880
at | 4.30 P.M.

Res. 130 already
burnt 10 hours

Jan 8-11.40
Jan. 8- 5.00 ✓
" 9-15.00 Total 27.40 hours

Carbon broke $\frac{3}{8}$ inch from ~~top~~ middle
Glass cracked on leading wires
and follows it down

365 for Dewise House

Res. 120
Commenced boring at—

Jan 8. 1880
4.00

Jan 8 . 8.00
9 15.00 Total 23 hours
9 6.50
10 19.15—
11 7.00
12— 11.00 . 67.05— noon
12 9.30
13 11.00 . 87.35— .
13 11.30
14 22.80
15— 11.30 . 142.05—

362 Charles Flammer's Sketch

Res: 172

in Laboratory

Commenced Burning at | Jan. 8 1880 4:00 P.M.

Busted after burning ~~the~~ a total of 15 hours ✓

Cracked inside glass bottom of one leading wire

368 Charlies Flammes Bench 108

Rez 127

Commenced burning at — | Jan. 8 1880 4.00 P.M.

Jan 8 8.00
" 9 15.00
10 11.00
34.00 ✓

Inside glass cracked bottom of wires

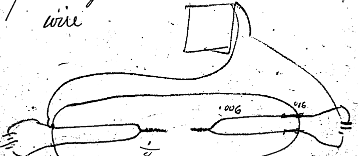
1007

361 on lampost number 109
6 at the corner of Stearns house

Commenced burning at | Jan. 9 1880 7.00

Broke on the night of Jan 9 1880
8 oclock burning 1 hour ✓

Cracked glass bottom of one leading wire



371 On Lamppost no. 13 between the corner of Labratory and corner of plank walk

Res. | Jan. 9/1880

Commenced running | [illegible] commenced at 7 oclock

Broke at 10.40 Total time burned √8.40 on the 9th 1880

Carbon broke near clamp With glass I see crack running lengthwise down glass on leading wire and I think it follows leading wire through

373 Over Flammers Bench
Experiment —

Res. 125 Jan. 9/1880
Commenced burning at 4.00 P.M.

Jan. 9 11.00 A.M.
9 11.00 hours
10 19.15
11 7.00
12 11.00 Total hours burned 48.15 noon
~~12~~ 9.30 "
13 11.00 " " " 68.45
13 11.30
14 22.30 "
15 11.30 " " " 123.15

372 Over Flammers Bench

Experiment

Commen burning } Jan. 9/1880
at Res 124 } 4.00 P.M.

Jan. 9. 11.00
10 19.15
11 7.00
12 11.00 Total hrs 48.15 noon
12 9.00
13 11.00 " " 68.45 " "
13 11.30
14 22.30
15 11.30 " 123.15 "

~~375 For Machine shop first bracket~~
~~Res 145 | Jan 9 1880~~
~~Commenced | 11.30 A.M.~~
~~burning at~~

375 in Chandelier by organ
Experiment—tips bended.

Res 145 | Jan. 9 1880
Commenced | 11.40
burning at | ———

Taken away by ~~noon~~ some—body

Jan 9. 10.20
" 10 9.15
" 11 9.00
" 12 11.00 Total hours 385 num
" 12 9.00 2~~6~~7.05
" 13 11.00
" 13 11.30
" 14 22.30
" 15 11.30 " 80

~~376 Machine shop second~~
~~bracket — from dome Experiment —~~
~~long glass tube~~

Res. 155 —

~~Commenced burning~~
at —

~~Jan 9 1880~~
~~11.30~~ AM.

376 Commenced Burning at 11.40
in Chandelier new organ

C. Experiment —
Burns on trip

Jan 9/1880
11.40

Jan. 9 — 10.20 P.M.

9 . 1 40
10 19. 15
11 7. 00
12 11. 00 Total hours 38.55 noon.

Broken on the night of the 12th

366 Suspended on wires
~~at~~ over mercury tube Long tip Laboratory

Rie 180 Jan ~~1~~ 8 1879
1.00 P.M.

Commenced running at

Taken down to run Upstairs 115—

366 Jan. 9 1880
Re 130 4.00 P.M.

Commenced running at

Jan 9 ~~650~~ 2
10 ~~44.~~ 2
11 2
12 2 Total 20

378 Jno Llanses Store

Reo. 182

Commenced running at | Jan 9. 1880 4.00

Jan. 9 —	7.50	
10	19.15	
11	7.00	
12	11.00	Total 45.05 noon
12	9.30	
13	11.00	" 65.35 "
13	11 30	
14	22.30	
15	11.30	" 120.05

365 — Jno Cornishes Store

Commenced burning at —

Res 120 | Jany. 8/1880

Commenced | 5.00 P.M.

burning at —

Jan 9 — 7.50.

" .. 10 — 14.15

" 11 7.00

" 12 11.00 Total hours 5.05 from

" 12 9.00

" 13 11 00 . . 65.35

" 13 11.30

" 14 22.30

" 15 11.30 . .. 120.05

378 Jno Cornishes Store 117½

Res commenced burning at — | Jan 8 1880 5.00 P.M.

Jan.	9	7.30	
"	10	19.15	
"	11	7.00	
"	12	11.00	Total 44.45 [illegible]
"	12	9.00	
"	13	11.00	" 65.15 "
"	13	11.30	
"	14	22.30	
"	16	11.30	" 120.45

35-2 On lampost at top
of stairs south side

Res. 122

Commenced burning | Jan 10 1880
11.00 P.M.

Jan 10 9.15
11 7.00
12 11.00 Total hours 27.15 now
12 9.00
13 4.00 " 47.45 "
13 11.30
14 22.30
15 11.30 " 102.15 "

366 Mr Uptons dining room

Res 130
Commenced burning
this P.M.

Jan. ~~8~~ 1880
4.00

Burns about 2 hours per day.

already burned ~~$~~ 6.50
Jan 8 2
" 9 2
" 10 2
" 11 2
" 12 2 Total 16.50 now
" 12 2
" 13 2 " 20.50
" 13 2 "
" 14 2 "
" 15 2 " 26.50
" 13

380. for Chemical Laboratory
one south side first chandelier Counting
from Telephone room

Res 100.
Commenced burning at- Jan 10 .1880
46.00

Jan 11 6.00
" 12 11.00 Total 17.00
" 12 9.30
" 13 11.00 " 37.30
" 13 11.30
" 14 22.30
" 15 11.30 " 92.00

Taken out

384 In Laboratory on hand lamp on table

Res 114

Commenced burning at — | Jan 10 1880 9.00

Jan 11 3.00
12 11.00 Total 14 hours
12 9.30
13 11.00 " 34.30
13 11.30
14 22.30
15 11.30 " $\overset{8}{8}$9.00

325 Put in post between Laboratory and office. Moved from right hand side of steps to depot—

Res. 143

Jan. 9. 1880

8. 00 A.M.

Commenced burning at—

Burnt about 11 hours and carbon broken on top place vacant—

10 ~~10. 00~~
11 . 11. 00
12 . 9. 30 total hours burned now
~~has burnt~~ 3130
13 . 11. 00
13 11. 30
14 22. 30
15 31. 30 . . . 86. 00

349 Jno. Office in Machine Shop.

Res. 142

Commenced | Jan 8. 1880

Running at | 7.00

Jan. 8	5.00		
9	15.00		
10	10.50		
11	7.00		
12	11.00	Total hrs work 32.50	
12	9.00		
13	11.00	..	78.20
13	11 30		
14	22.30		
15	11.30	.. ..	127.50

350 Jr Office in Machine
Shop.

Reo 139

Commenced running at- } Jan. 8 1880 7.00

Jan 8	5.00	
9	19.50	
10	10.50	
11	7.00	
12	11.00	Total 53.10 noon
12		
13		
14		
15		

389 In front of Edgeans House

Rev. 120 | Jan 12/1880

Commenced burning at | 9.00

B

395 In front of office south-side

Res 141½

Commenced burning at | Jan. 13/1880

10.00

3[illegible]3 In Hansed Olive

Res. 122

Commenced burning at – Jan. 12/1880 at – 9.10

394 Jn Clarkes Store

R.105 – Jan. 12/1880

Commenced running at – # 9.00

394 In Telephone room

Res 105—
Commenced
burning at— | Jan 12, 1880
9.15—

Busted glass by closet

~~Baker Error or broken no vacuum -~~
~~given~~

377 Suspended on wires
near Mr Kenny

Res. 129 Jan 13 1880

Commenced burning at 2.08 P.M.

Changed by Mr Zagle to serve one
lamps

(B) noted JF

423 on hand lamp in table in Laboratory

Res 111 Res

Jehl

400

Jim Chandelier near organ

Blown out around the joint

Res 124 — Jan 18 1880

Commenced burning at R 8.20

Taken over to office and broke by falling off table Total burning time

4.00 hours

Taken away

417 In front of upstairs nurse

Commenced running / Jan 15 1880

5.30

401

Lamp over organ. north side

Res. 118

Commenced running at / Jan. 14. 1880

8.40

Carbon broken with force at ~~the~~

pe clamps at 1.30/14/1880

°
Round marks over

Lamps in Laboratory	Page	Lamps in Laboratory	Page	Lamps in Edison's	Page	Lamps in Shop	Page	Lamps in Office	Page	Lamps at [illegible]	Page	Lamps at Mr Upton's	Page	Lamps at Mr [illegible]	Page	Lamps in street		Edison's House	Page
142	1	214	62	176	82	~~143~~	~~20~~	155	12	248	26	224	41	263	67	~~147~~	~~23~~	~~341~~	~~87~~
159	2	264	65	207°	83	~~186~~	~~21~~	201	13	218	25	170	42	299	68	236	24	~~336~~	~~88~~
189	3	234	66	~~210~~	~~34~~	~~211~~	~~22~~	164	14	~~222~~	~~27~~	168	43			~~218~~	~~25~~	~~335~~	~~89~~
275	4	~~223~~	~~69~~	~~163~~	~~35~~	~~317~~	~~74~~	172	~~15~~	~~257~~	~~28~~	181	44			~~[illegible]~~	~~[illegible]~~	~~343~~	~~90~~
255	5	104	70	~~196~~	~~36~~	329°	82	184	16	242	29					~~206~~	~~30~~	Steel Lamps	~~[illegible]~~ Page
~~223~~	~~6~~	328	71	194	37	326°	83	158	17	315	72					108	31	351	99
193°	7	~~332~~	~~86~~	342	87			198	18	316	73					153	38	352	100
162	8	~~[illegible]~~	~~74~~	336	88			197	56							235	39	353	101
~~167~~	~~9~~	358	105	335	89			307	57							~~229~~	~~40~~	354	102
~~204~~	~~10~~	362	107	343	90			332	94							306	58	~~176~~	
~~203~~	~~11~~	368	108	348	92			360	103							~~310~~	~~60~~	361	109
~~185~~ do[illegible]	~~12~~	372	112	347	93											~~240~~	63	371	110
270	19	373	111	340	96											~~318~~	~~75~~	~~373~~	~~111~~
~~143~~	~~20~~	375	113	345	97											313	76	~~372~~	~~112~~
~~303~~	~~53~~	376	114													334	77		
161	54	366	115													331	78		
311°	55															325	79		
~~312~~	~~61~~															~~327~~	~~80~~		
																322	81		
																333	85		
																298	91		
																~~348~~			
																176	98		

373 — Hall lamp in Mr Batchelors
lamp as Mr Clarke lamps.

Rec 145 —

144 Rmo Jan 15 — 1880

Date Jan		When Lamp Commenced to run		When Lamp commenced to run		Total hours	running	Remarks
		hours	min.	hours	min	hours	min	
Jan	2	5	30	continued				
"	3	~~12.30~~		12	30	19	30	
"	3	1	15	10	13	9	58	
"	4	3	10	Continued				
"	5	—		12	00	20	50	— 1 hour for supper
"	5	1	03	5	00	3	47	
"	5	5	40	—				
"	6	—		12	00	17	40	
"	6	1	P.M. 34	9.	P.M. 00	8	26	
"	7	1	A.M. 00	7	00	6	00	84.11 85.11 Total
"	7	5	45	12	12 midnight 00	6	15	
"	8	1	A.M. 00	12	M. 00	11	00	
"	8	1	00	6	00		00	
"	8	7.	P.M. 00	12	20	5	00	
"	9	7	A.M. 00	12	noon 00	5	00	
"	9	1	00	5	00	4	00	
"	9	5	10	~~6~~		6	50	
"	10	—		6	00	6	00	
"	10	7	00	12	00	5	00	149.15 hours ~~149.15~~

Date Jan		When commenced running		When	lamp out 88	Total	hours running	Remarks
Jan	10	1	P.M. 00	9	15	8	15	19.15
Jan.	11	5	P.M. 00	~~6~~	~~00~~	7	00	7.00
"	12	~~6~~	~~00~~	6	P.M. 00	6	00	
"	12	7	00	12	00	5	00	
"	12	1	00	4	00	3	00	14 00
"	12	5	30	–		6	30	20 30
"	13	—		5	00	5	00	
"	13	6	00	12	00	6	00	
"	13	1	00	30 minutes 6	00	11	30	22.30
"	14	7	00	12	00	6	00	
"	14	1.	00	~~stopped~~ 3 38		5 11	00 30	22.30
"	15	~~7~~		6	00	6	00	
"	15	7	00	12	00	5	00	
"	15	1	00	~~6~~		11	00	
"	16	—		12	00	12	00	
"	16	1	00	—		11	00	

409–410. #

Went in chemical Laboratory
by Edison
Rec
Commenced } Jan 14 1880
burning. at 9.40

Taking out Bath

408 on Griffin's desk
Rec in office

Commenced burning (Jan 24/1880
9.30 PM

Gone Cant-fina

Index

100		100		200		200		250		300		300		360	
Lamp	Page	Lamp	Page	Lamp	Page	Lamp	Page	Lamp	Page	Lamp	Page	Lamp	Page	Lamp	Page
142	1	176	98	~~[illegible]~~						303	49	343	90	356	115
159	2	172	112	275	4					310	60	348	92	357	104
~~189~~	~~3~~			255	5					311	51	347	93	365	106
189	3			226	6					301	52	332	94	378	116
193	7			204	10					300	53	~~184~~	~~75~~	345	117
162	8			203	11					306	58	318	75	378	117½
167	9			201	13					312	61	351	99	352	118
155	12			270	19					~~[illegible]~~	~~66~~	346	76	366	119
164	14			211	22					323	69	345	77	360	120
172	15			236	24					328	71	311	55	384½	121
184	16			218	25					315	72	307	57	325	122
158	17			248	26					316	73	304	64	349	123
198	18			222	27					317	74	334	77	350	124
143	20			257	28					313	76	330	84	393	127
186	21			242	29					331	78	335	89	377	
147	23			206	30					325	79	352	100	409 #	19
108	31			207	33					327	80	353	101	400 #	20
176	32			210	34					322	81	354	102	389	125
163	35			235	39					329	82	360	103	419 #	21
196	36			229	40					326	83	358	105	403 #	22
194	37			224	41					333	85	362	107	410	23
153	38			244	48					332	86	368	108		
170	42			240	63					~~342~~	~~[illegible]~~	361	109		
165	43			264	65					342	87	371	110		
181	44			284	66					336	88	373	111		
161	54			263	67							~~172~~	~~112~~		
197	56			221	68										
~~140~~	~~63~~			295	59										
104	70			214	62										
184	95			298	91										
				~~184~~											

Batchelors sitting room near door
418 R1

One wanted in Mr Jordan Kitchen
one wanted in Edisons parlor
Wanted new lamp in Jordans —
Edison wants 150 in his Office
Lamppost of engine house not done
Mr Upton wants one.
Mrs. Jordan wants two

360 over [illegible] desk

Commenced burning at
12 — 20. Jan. 1880

Mrs Edison

Mr Edison M.P.